



Mars Technology Expertise Transferred to the Highway

COMMERCIAL APPLICATION

GSYS Corporation LLC, utilizing the expertise of the NASA Glenn Optical Instrumentation Branch, has been able to develop a collision avoidance system for the trucking industry. This is an improvement over currently available technology in that truckers can now “see” what is in their blind spots (what is behind them and to their sides), not just what is in front of them. The Great Lakes Industrial Technology Center (GLITeC) linked GSYS to NASA Glenn, who provided valuable design expertise and evaluation assistance to GSYS.

NASA APPLICATION/INVOLVEMENT

The Optical Instrumentation Branch at NASA Glenn offers a wealth of sensor technology expertise for the development of product breakthroughs. The branch was responsible for the quartz crystal monitors used by the Mars Pathfinder Mission to measure ambient surface dust on the planet.

SOCIAL/ECONOMIC BENEFIT

Fleet enterprises spend an average of \$90,000 to cover losses for each truck accident. The GSYS collision avoidance system offers better protection for the trucking industry’s drivers, trucks, and freight. Safeguarding the 19 million trucks on our highways with the GSYS system can reduce accidents. There is immediate economic payoff for the fleets, and the value of lives saved is immeasurable.



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